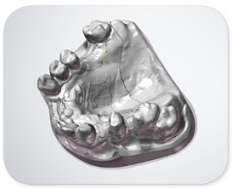
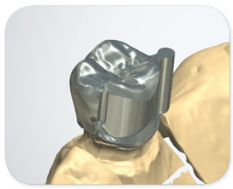
What's new in Dental System™ 2012





Read about the latest patch

Welcome to 3Shape's Dental System™ 2012 release!

3Shape's Dental System™ 2012 carries forward 3Shape's global position as the creator of the world's most innovative and sold system for Dental CAD/CAM. 3Shape's 2012 version is packed with even more indications, new features, improved functionality and new tools to improve productivity.

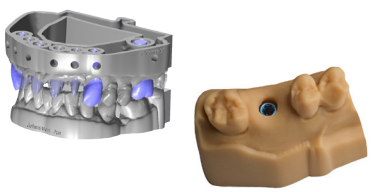
In today's competitive climate, labs that provide supplementary services are winning territory in relation to production-only labs. In tune with these trends, Dental System™ 2012 is designed to help labs help their dentists with many new solutions that allow labs to build new services for their dentists and thereby strengthen client relationships. And the best thing is - this treasure of powerful features comes automatically to existing 3Shape users as a part of their annual update agreement.

Each of the new major additions is described below followed by a list of minor improvements implemented in coming updates during this year. Please refer to the online User Manual for detailed descriptions of each feature. We hope you will enjoy exploring the creative power of this new release and trust that it will add true value to your daily business!

TRIOS® integration

TRIOS® is 3Shape's new ground breaking Digital Impression solution. With Dental System™ 2012, all 3Shape labs become equipped with a free TRIOS® Inbox. The new inbox enables labs to receive TRIOS® digital impression scans from their dentists directly into Dental System™ and immediately start the design process without first creating a physical model. This integrated solution makes it easy to connect to all open TRIOS® scanners in the market and opens doors to new business models and dentist clients.

Model Builder™



Allows technicians to design digital lab models directly from digital impression scans and conventional impression scans. Model Builder™ supports an extensive range of indications including crown and bridge, implant models, sectioned and unsectioned models, and makes it easy to design retractable dies and retractable neighbors. The software automatically adds the articulator interface and virtual model base with the option to engrave the order ID. Supports validated 3rd party digital impression scans such as Sirona Cerec and iTero™, and produces optimized manufacturing output for a wide range of 3D printers and milling machines. Patent pending. *Add on module.*

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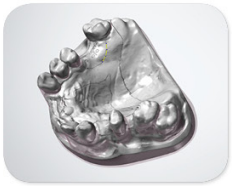
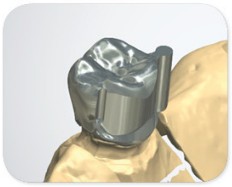


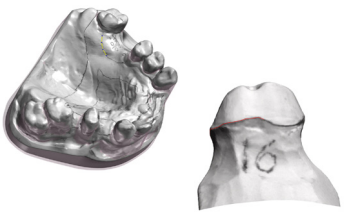


3Shape Communicate™

With 3Shape Communicate™, labs get an advanced tool designed to ease communication and strengthen business relationships with their dentist clients. Technicians can send 3D visualizations, screen shots and questions about cases to the dentist – directly from Dental System™. At the clinic, an email signals arrived input, and the dentist can log in to view the design in 3D, write comments, or approve the results. Accounts are easily created for both lab and dentists using the web interface. Dental System™ 2012 includes a free Communicate™ version that covers standard use (can be upgraded).

Texture Scanning

Combine your artistic technician skills with the digital process and jumpstart the design workflow. Utilizing the two 5MP cameras in the D800 scanner, Texture scanning captures 2D images of the gypsum model surface and precisely overlays these on the 3D model, thereby enhancing visualization of surface details and bringing hand-drawn design guidance markings into the scan. Texture scanning is particularly useful for capturing hand-drawn lines penciled directly on the physical model, or for transferring general design guidelines from the gypsum model into the modeling software, e.g. during design of removable frameworks. Patent pending.



Digital Temporaries

A revolutionary new workflow solution for the design and manufacturing of temporary crowns and bridges directly from the pre-preparation scan without ever pouring a gypsum model. The temporary crown can be designed based on the patient's original teeth or, even more importantly, as a replica of the new crown design thereby allowing the patient to evaluate the fit and esthetics of the final restoration even before it is produced. Unique features include Virtual Preparation, Virtual Gingiva and full integration with Smile Composer™. While making temps may not generate high revenue, it does enable labs to capture the order for the final crown. Patent pending.

Original teeth

Virtual Diagnostic Wax-ups

Use Virtual Preparation & Gingiva functionality to easily design highly esthetic Virtual Diagnostic Wax-ups for accurate design previews before the patient's teeth are even prepared. Apply Smile Composer™ to create esthetic and functional diagnostic wax-ups in a completely model-free workflow. Combine with 3Shape Communicate™ to send virtual diagnostic wax-ups online for immediate dentist/patient 3D previews, speeding up turn-around time and helping the dentist to improve sales through a cost-efficient and all-digital process. Patent pending.

New crowns

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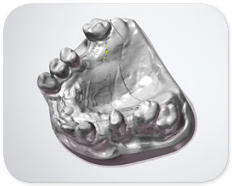
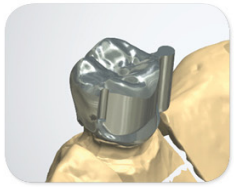
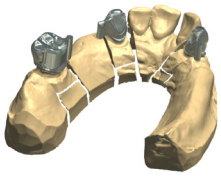




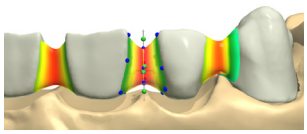
New Advanced Telescope design

Completely new and advanced tool for creation of telescopic crowns supporting sophisticated primary constructions, improved edge design, multiple bands, open telescopes, and design of attachment crowns. The software makes it fast and easy to edit and modify telescope shapes, fillets and bands. Technicians can add any attachment to the telescope crown using both standard and custom shapes. Patent pending.



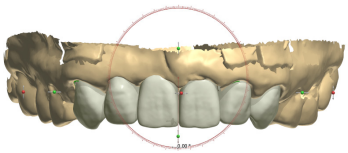
New Bridge Connector

Completely new connector tool for easy and sophisticated design of bridge frameworks and full anatomy bridges. New features include powerful 3D controls for designing the center of the connector, new shaping tools, color coding of connector thickness, and simplified user interface.



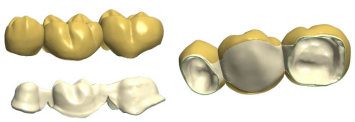
Improved Smile Composer™

Dental System's unique Smile Composer™ has been improved with additional tools plus even more anatomy and smile libraries. Enhanced algorithms optimize movement and scaling of the smile, improve the connection between the anatomy and preparation, and improve initial auto-placement of crowns. The tool box has been expanded with a Global Morph tool that allows you to morph all crowns simultaneously. Patent pending.



Multilayer Design for full digital bridges

The new Dental System™ Multilayer functionality enables highly productive bridge design for pressing or combinations of milled glass-ceramics and Zirconia. Automatically split full anatomy designs into two true and entire parts, completely without undercuts or lost areas. The new workflow ensures a perfect match when the manufactured layers are reunited, drastically reducing manual interaction and finishing.



Customized abutments

3rd Generation Abutment Designer offers extensive new functionality for faster and better customized abutment design. Design abutments with angled screw holes for optimal esthetics of the final restoration, and use Screw Hole Protection to efficiently prevent the veneering layer from entering the screw hole on screw retained crowns. Improved modeling tools include new fillet radius, additional 3D controls and enhanced surface finish. Abutments can be designed from TRIOS® and 3rd party intraoral scans. Digital implant models can easily be created in combination with Model Builder™. Support for an extensive range of implant systems. *Add on module.*

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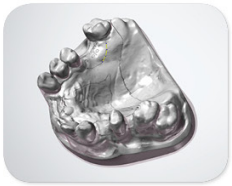
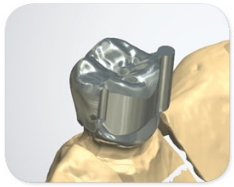
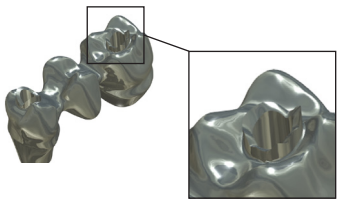




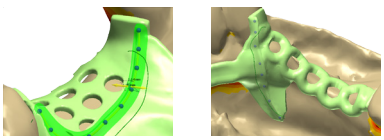
Improved Screw Retained Bridges

The Implant bridge software offers improved manufacturing support by automatically combining multiple layers and immediately preparing them for production. Design implant bridges with angled screw holes for optimal esthetics of the final restoration, and use Screw Hole Protection to efficiently prevent the veneering layer from entering the screw hole when finalizing the restoration in the lab. Combine with Smile Composer™and a growing number of smile libraries to design full anatomy implant bridges at unmatched speeds. *Add on module.*



2nd Generation Removable Partial Design

New tools for efficient design of Removable Partial Dentures and enhanced scanning script for better scan surface precision. Added features include add/remove functionality with user-defined threshold to ensure uniform thickness of blocking wax, and improved shape of Torus ladder retention grid when working with shrank-bone cases. Technicians can enjoy flexible tools to place minor connectors and external finish lines while staying in full control of position, profile and width/thickness. *Add on module.*

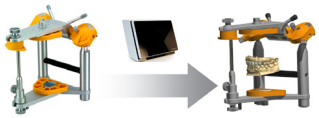


More Virtual Articulators

Dental System™ 2012 supports the market's widely recognized articulators to provide an optimal user-experience. The software currently includes SAM® 2P, KaVo PROTAR® evo, Whip Mix Denar® Mark 330 and Artex® (compatible) - and even more articulators will be included over time. Technicians can define and play their own motion sequences in customized scripts and with the Occlusion Compass functionality, the color of contact points are mapped to specific occlusion movements. Patent pending.

Transfer exact position to virtual articulator

Dental System™ 2012 now makes it possible to transfer the exact jaw position from the physical articulators into the virtual articulators. Using specially designed interface plates, the exact position is captured and transferred into any of the virtual articulators available. Facebow measurements from the patient can be transferred via the physical articulator. Interface plates will be available Q1, 2012. Patent pending.



Align & Re-use design

Using Align & Reuse technology, designs for Virtual Diagnostic Wax-ups and temporaries can be reused directly for designing the final restoration. After the dentist has prepared the teeth, a scan of the preparation is accurately aligned with the pre-preparation scan. With a single click, the temporary or virtual diagnostic wax-up design can be re-used as the final restoration. This provides an extremely efficient and easy workflow that also eliminates problems with trying to reproduce exact diagnostic wax-up designs manually. Patent pending.

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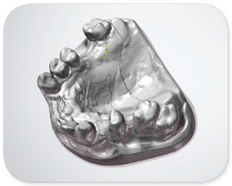
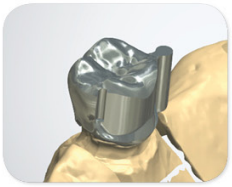
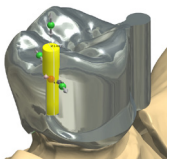




Parametric attachments

New flexible functionality that makes it easy to adjust multiple attachments to the specific clinical situation. Conveniently change key parameters for selected attachments, e.g. radius for cylinders and holes and height/width for rectangular attachments. Adjust the attachments directly in the 3D view for immediate visualization on the restoration design. In addition, new non-parametric attachments have been added to the attachment library.



New drill-compensation

The new drill-compensation feature is optimized for minimum use of occlusal space, thereby leaving more room for the final restoration. It additionally provides better and smoother compensation results, resulting in a high-quality surface finish. The original drill compensation feature remains available and the software remembers your individual preferences from case to case.

Before

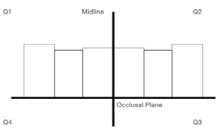
After

Extensive smile libraries

Dental System™ 2012 includes as much as 30 new Smile and Anatomy libraries for creation of highly esthetic and functional restorations based on full anatomies. Use the libraries in combination with Smile Composer™ when designing full anatomy bridges. Improved functionality supports the creation of your own customized Anatomy and Smile libraries based on wax for direct use in the design software.

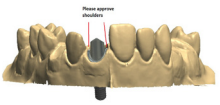
2D Image Overlays

Allows labs to visualize 2D images of a patient's actual face and smile in the design process and utilize both directly to produce optimally esthetic and personalized restorations. Generic 2D smile-guides and design-templates help you achieve astounding esthetics, even without pictures of the actual patient's smile. Select standard templates or import you own to recreate complete smile compositions for application with your restoration design. Patent pending.



Screen shot button

A new integrated screen-shot button on the toolbar makes it fast and easy to generate screen shots of your designs, from any view and during any modeling step. Directly open the screen-shot in your favorite image editor to add comments or drawings. Show the design details with dentist-clients or other technicians for sharing or discussing the case. Screen shots are automatically uploaded to 3Shape communicate and saved in the order folder.



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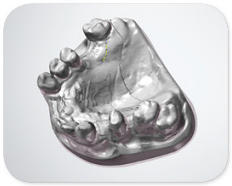
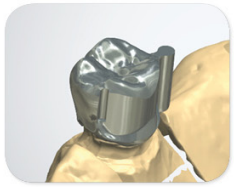
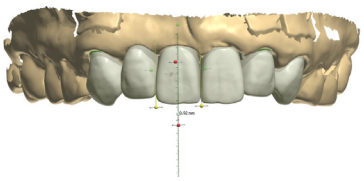




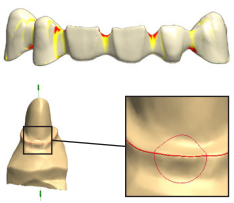
Improved sculpt tools

Our 2012 release equips technicians with even more powerful Sculpt tools to improve esthetics and productivity. The new morphology protection scale tool makes it easier to adjust the crown design with optimal respect for the individual tooth morphology. Additional new features include a new "Apply-to-All" functionality, new measurement tools for easy on-screen fine-tuning of design, and the option to automatically extend pontics to gingival.



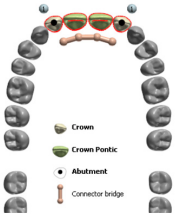
Updated toolbox

To improve the workflow and increase efficiency, a number of new general tools have been included in Dental System™ 2012. Easily adjust the influence area of point editing using the mouse wheel - used when setting margin lines, when defining splines in Model Builder™, or when creating Major Connectors during RPD design. With the new color coding functionality non-millable areas are instantly visualized during modeling, and a new shortcut key (Press A) has been added to allow the technician to quickly turn the antagonist on/off.



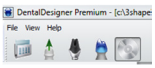
Smart Order Form

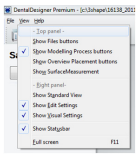
Dental System™ 2012 introduces the Smart Order Form with a dynamic legend and intelligent auto-selections based on previous choices. The dynamic legend instantly shows the selected indications in a graphical overview to provide easier order creation and reduce errors. A new scan-type category has been added for Digital Impressions. Digital Lab models can easily be added to the order when selecting based on different materials and manufacturing processes.



Simplified User-interface

Dental System™ 2012 incorporates new interface options and unique usability features that make the software even easier to master. Visualization of the workflow in the top-header now only shows design steps that are relevant for the case at hand. Users can freely hide or show toolbars on their screen, according to their personal preference or current task. The interface has be modernized with a new background design for an even fresher and cleaner feel.





Simultaneous prosthetic and surgical planning (3rd party)

Export scans and design files from Dental System™ 2012 directly into 3rd party implant planning software for optimal clinical and esthetic implant planning. And vice-versa – import implant positions from 3rd party planning software into Dental System™ to create temporary prosthesis prior to insertion of the implant. Currently supports export to *Planmeca Romixa and Materialise Simplant*.

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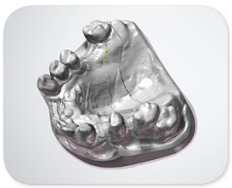
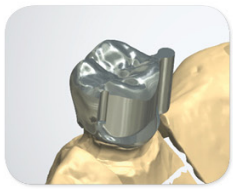
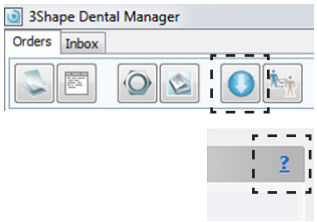




Integrated online manual and training videos

Dental System™ 2012 now includes integrated Online Help in 12 languages. Users get instant access to detailed instructions directly from the software and are automatically sent to the relevant section in the manual. A series of instructional training videos have been made to carefully guide you through the various workflows and design tools in your software. Multi-language user-manuals, videos and other training tools are available through the integrated Download Center that can be accessed directly from Dental System™.



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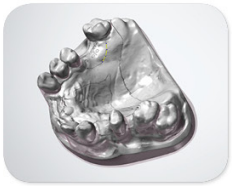

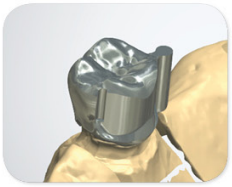

Dental System™ 2012 - Detailed Release Notes

New features and issues solved in the releases of 3Shape's Dental System™ 2012 are described below.

Version 2.7.8.13 (January 2013)

The following new features and solved issues are available in Dental System™, version 2.7.8.13:

- Various improvements to ScanSuite™ (version 1.0.5.5).
  - Possible to skip the multi-die arm adjustment.
  - USB connection test in ScanServer start-up.
  - Italian language updates.
  - Improvements to Support tool.
- Improved integration with 3Shape Communicate™.
- Various issues fixed, including problem with missing visibility slider for bite scan in Model Builder™.

Version 2.7.8.12 (November 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.12:

- Improvements to Removable Partial Denture workflow
- When changing the RPD insertion direction with the arrow buttons, the change in direction is clearly visualized.
  - Users with RPD-only license will be able to use attachments in sculpt step.
  - Different colors on control points for the active clasp.
- Various improvements to ScanSuite™ (version 1.0.5.4)
  - Improved image compression stability for D640 scanners and D700/D710 scanners produced before July 2011.
  - Improved the usability for ScanServer™ startup
  - Updated translations for the following languages: Chinese, Czech, French, German, Greek, Japanese, Korea, Portuguese (Brazilian), Russian, Spanish and Turkish.
- Improved integration with 3Shape Communicate™.
- Various issues fixed, including problem with RPD clasps length.

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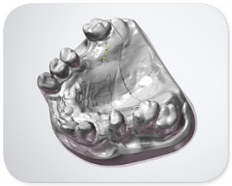

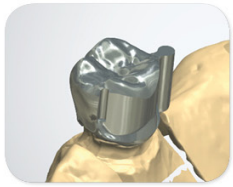

Version 2.7.8.11 (October 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.11:

- Full support for 3Shape CAD Points.
- Improved Webshop integration and support in Dental Manager™.
- Improved scan alignment in "Reuse design" workflow. User can now mark specific scan areas to be used for alignment.
- Improved connector stability when connecting two anatomy elements.
- Improved integration with 3Shape Communicate™.
  - All Communicate messages are now automatically marked according to importance (low, medium, high) when they are sent to the dentist (e.g. TRIOS®).
  - By default all messages are marked with Low Importance - except "Reject" which is marked with high importance.
  - For messages created manually, the user can specify the message importance (low, medium, high)
  - New reset button in Control panel to reset data synchronization.
- Various issues fixed, including orientation of the 3sfm-file generated for customers using the HyperDent milling software.

Version 2.7.8.10 (September 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.10:

- Full support for 3Shape CAD Points.
- Improved scanning of Wax-up Bridges for D800.
- Optimized rendering system for consistent rebuild of the CAD design when re-opening.
- The order in which teeth are modeled and the naming of CAM output files are now based on the tooth index number (UNN) - independently of the order in which teeth are selected in in the Order Form.
- Improved functionality for Telescope Design.
  - New option added to visualize angle between insertion direction and Telescope direction.
  - Possibility to set maximum angle difference between insertion direction and Telescope direction.
- Improved algorithm for Removable Partial Design to avoid penetration (e.g. during clasps design) of the scanned model and ensure improved fit.
- Improved and optimized "Sawed" (Sectioned cut) digital lab models in Model Builder™:
  - Possibility to use a predefined geometry as the side and bottom of the model base.
  - Cut planes in sectioned-cut models are always vertical as default.
- Improved integration with 3Shape Communicate™, including Auto-creation of new Dentists in Dental Manager™ and new icon in the Communicate™ column in Dental Manager™ to clearly mark Communicate orders.
- Various issues fixed, including issue with importing of 3oxz files from a local PC.

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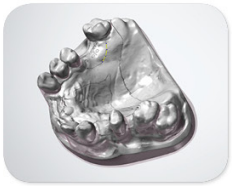

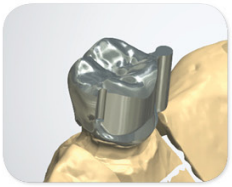

Version 2.7.8.9 (August 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.9:

Scanning

- For the first time, ScanServer and ScanSuite are now included in the Dental System™ Installer to ensure easier and better roll-out of software improvements.

General CAD Design

- Improved morphing of anatomy to pre-preparation scan and wax-up model in Smile Composer™ step.
- Improved "Remove Undercuts" functionality for Coping step. If "Anatomy Edge Protection" is enabled, the "Remove Undercuts" function will protect the area near the anatomy edge.
- 'Pro-/Retrusion' is added to default motion sequences for Virtual Articulators.
- To ensure minimum wall thickness for wax-ups, the "Thickness map" slider and the "Ensure Minimum thickness" function has been added in sculpt step.
- The "Scissor Slider" tool has been added to Smile Composer™.

Model Builder™ and TRIOS® integration

- Model Builder™ now supports design of "Sawed" (Sectioned cut) digital lab models.
- TRIOS® margin line is only shown in Model Builder™ if defined by dentist.
- Optimized memory consumption in Model Builder™.
- New warning message in "Annotations step" when one or more 3D annotations are included in the TRIOS® scan.

Implant Bars

- Possibility to combine different bar profile types in the same Bar. New right-click option to select bar profile type for each bar segment.
- New option added in Control Panel to increase number of triangles (Add extra points) to improve smoothness and finish of the manufactured bar.

Dental Manager™ and other

- Updated software language translations.
- When importing a manufacturing process, the software checks that it is connected to at least one manufacturer. A warning message will be shown if it is not connected.
- Additional RPD design data are added to the DCM output file.
- Improved integration with 3Shape Communicate™.
- Possibility to preview 3D files for Implant Libraries in Control Panel.
- Various issues fixed, including issue with creating a Waxup bridge on implants.

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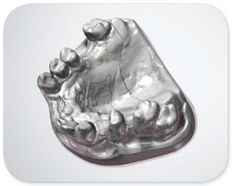

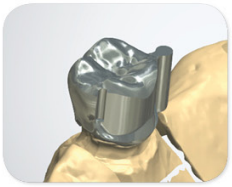

Version 2.7.8.8 (July 2012)

HotFix to solve the following issues:

- Correct naming of Model Builder™ output files for specific manufacturing output.
- 3M CAD output is now independent of scanner type.

Version 2.7.8.7 (July 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.7:

General CAD design

- Improved morphing of anatomy to pre-preparation scan and wax-up model in Smile Composer™ step.
- The "Occlusal attrition" tool has been added to Smile Composer™ for easy smoothing of anatomical details (works for molars and premolars).
- Improved inner surface creation (die interface) to prevent noisy boundary for preparations (only problem for artificially sharp preparation edges).
- Improved minimum material thickness feature on Anatomy for multilayer orders.
- New help function in the Virtual Articulator menu with guidelines for setting up the physical articulator correctly before transferring model position.
- Improved 2D Measurement Overlay Grid now shows the distance from center of view to the mouse cursor.
- Ability to use "Global Transformation" tool for both bridges and single crowns in Smile Composer™ step.
- Improved Veneer design feature.

Model Builder™

- Support for digital impressions with preparations in Upper and Lower jaw in Model Builder™.
- Unique support for "Abutment as a die" in Model Builder™, i.e. print customized abutment as part of the implant model to avoid using analogs:
  - Print abutment as a die for sectioned models.
  - For unsectioned models the abutment is merged into the model.
- Model Builder™ now supports drain holes for resin-based printers printing directly on the platform.
- New feature to translate analog hole along insertion direction in Model Builder™ using "Analog Hole Level Adjustment" parameter in Model Builder™.
- Implant Analog hole is now included in Unsectioned implant models.

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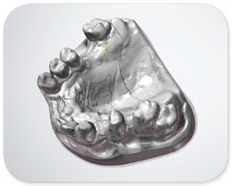

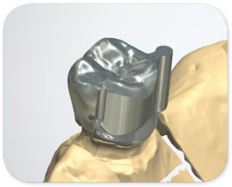

- Ability to change distance map settings in "Correct Occlusion" step in Model Builder™.
- Possible to sculpt after "Gingiva cut-out" step in Model Builder™.

Abutment Designer™

- Support for additional customized abutment design limitations according to the validated design matrix, e.g. blank and inner limits.
  - New warning message if customized abutment design violates design limitations.
  - New slider has been added to visualize the inner limits on abutments.
- Screw visualization slider is visible from the first abutment design step during anatomy/frame design.

Removable Partial Dentures

- Ability to change resin gap width of an active retention grid in RPD design step (hold Ctrl key while scrolling mouse over resin gap edge)
- Ability to automatically smooth out internal finishing line under minor connectors in RPD design step.

Dental Manager™ and other

- Ability to reuse original order IDs during import/accept of an order.
- Significant speed optimization for CAM, ERP (UDX) and Visualization output generation
- A new subfolder structure for scan files has been implemented. The files are now located in the new "…\Scans" subfolder in the order folder.
- Improved integration with 3Shape Communicate™.
- Ability to start TeamViewer directly from Dental Manager™ using a new button in Tool Palette.
- Various issues fixed, including issue with material Import.

Version 2.7.8.6 (May 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.6:

- Improved Dental System™ Installer with option to run an Express (automated) or Custom installation. If the Custom installation is chosen the user will have the same options as before:
  - Installation type: Stand alone, Server, Restore from backup
  - Advanced Dongle Settings
  - Advanced Database Settings
  - Internet Proxy Settings

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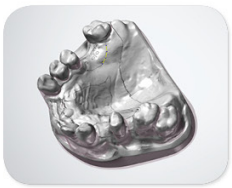

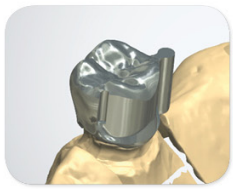

Information given during installation will be saved and used when updating.

- Impression Scanning now supports Temporary Crowns and Temporary Pontics.
- For Anatomical framework orders, the anatomy elements are no longer required to be connected.
- A handle is added to retention grid feature in RPD design, allowing the user to rotate and pan holes pattern over the retention grid.
- Possibility to ensure minimum material thickness on Anatomy for multilayer orders (new "Minimum Thickness Anatomy" setting in Frame Design step).
- Support for Articulator interface setup in Control Panel. Settings can be accessed in the "Digital model/Articulator interface" page in Control Panel.
- Model Builder™ support for digital impressions with preparations in Upper and Lower jaw (prepare steps only).
- Ability to export CAM output directly to FTP or e-mail. Option is available in Dental Manager™ Export dialog (Advanced → Export, select "Mail" or "FTP").
- Support for UDX 1.23 schema and UDX order import improvements.
- Order is now sent to manufacturer in the background.
- Improved integration with 3Shape Communicate™.
- New material file import history visible on Import Materials page in Control Panel.
- Support for export and import of settings for Temporaries in Control Panel.
- Dongle server service is updated to a new version.
- Various issues fixed, including problem with Double preparation in order form.

Version 2.7.8.5 (April 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.5:

- DentalManager user-interface has been updated to Dental System™ 2012 theme.
- New "Occlusal Stop" feature added in Anatomical Coping Step to create coping with an occlusal surface.
- Improved Mirror tool allows user to select mirror source in a new drop down menu (mirror from pre-preparation scan or preparation scan).
- Optimized Transformation tool in Smile Composer™. The height-scaling handle maintains occlusal surface of the teeth, i.e. same behavior as in Sculpt tool.
- Improved 2-point automatic placement for single molar full crowns Model in Smile Composer™.
- "Cut to antagonist" maximum value in Sculpt tool is increased from 0.6 mm to 2.0 mm in Anatomy design and Frame design steps.
- Checking/unchecking the "Lock insertion direction" option in Abutments step will change the state of all abutments in an abutments group.

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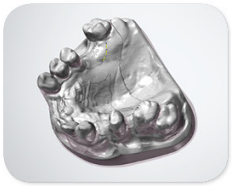

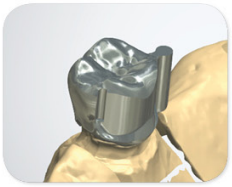

- Ability to show Virtual Articulation in 2D cross-section window.
- New 2D Measurement Overlay Grid has been added to visualization panel.
- New possibilities to apply identical margin edge design for Anatomical Copings as used for standard Copings. Use "Simple edge" checkbox in coping step to enable.
- Significant speed optimization for Removable Partial gypsum model scanning on D800 (approx. 30% faster).
- New option to make speed optimized antagonist scan on D800 (enabled as default).
- Friction bars are automatically placed symmetrically around the analog interface model.
- Digital Model settings for implant models are added to the Control Panel (Friction bars).
- Additional virtual trim settings in Model Builder™ (Friction bars).
- Improved selection-based alignment of prepared model to pre-preparation scan.
- Ability to automatically convert TRIOS® order information to the corresponding Dental System™ indication and material. Conversion settings can be modified in the "DentalManager™/Order import" page in Control Panel.
- Ability to perform automatic design validation in "Finalize" step before saving. "Always validate at end of modeling" option can be set per material on the Materials page in Control Panel (disabled as default).
- "Validation Result" column is added in Dental Manager™.
- "Last modified" column is added in Dental Manager™.
- Support for download of multiple material files for different software versions.
- Support for assigning ERP number to each abutment kit.
- Possibility to define material color in ERP items number.
- Possibilities to generate language dependent output file containing general information about the order ("Output INF file" option has been added on "Manufacturing process" in Control Panel).
- "New drill compensation" option can be turned on/off on Manufacturing Processes page in Control Panel (enabled as default).
- "Apply uniform offset" setting has been added to Copings page in Control Panel (enabled as default).
- Various issues fixed, including problem with Lingual band on anatomical copings.

Version 2.7.8.4 (March 2012)

The following solved issues are available in this Hot Fix for Dental System™, version 2.7.8.4:

- As a response to several customer request, single piece abutment CAM output is now forced to be oriented along the Z-axis.
  - Check "Use implant coordinate system" for the abutment kit to apply this orientation.
  - This CAM output orientation matches the behavior of Dental System™ 2010 for single piece abutments.

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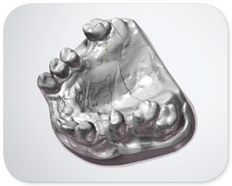

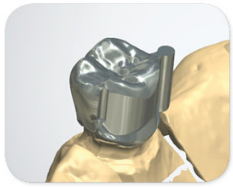

- Smile Composer™ is no longer used for Inlay cases.
  - This will compensate for unsatisfactory cement space and material results seen with Dental System™ 2012 version 2.7.8.3 when designing Inlays.

Version 2.7.8.3 (March 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.3:

- Smile Composer™ is also used for design of single molar full crowns. Press the "A" button to select the 2 contact points on the neighbor tooth. Adjust parameters under advanced settings.
- New translation and rotation handle in Smile Composer™.
- Design veneers using Smile Composer™.
- Ability to use Sculpt Tools on the preparation scan in the die interfaces step.
- Undo/Redo functionality for Robotic and Parametric abutments.
- Improved 2D plane control ('slide' and 'tilt') for 2D cross-section plane and occlusion plane.
- Threshold based add/remove for inside-out copings and frameworks.
- For single layer crowns and anatomical copings minimum thickness enforcement is corrected to enforce only one layer.
- Ability to change the insertion direction for Digital Temporaries during Virtual Die Design
- New option to 'Lift Off' Temporary design during Virtual Die Design
- Improved features and added functionality in Removable Partial Design module:
- Improved Cut to Antagonist tool.
- In RDP Design step the RPD is shown from Insertion Direction view.
- New shortcuts to change Clasp and Minor Connector height, width, or width and height simultaneously (Hold Ctrl+Alt, Shift+Alt or Ctrl+Shift+Alt while rotating the mouse wheel).
- Improved stability and error messages for wax-up bridge design.
- Support for additional motions using ACR articulator (ArmannGirrbach® Artex compatible).
- Possibility to set and simultaneous update a common insertion direction for a group of attachments.
- New sculpt functionality to extent the shape of the anatomical pontics downwards to the full anatomy e.g. for multi-layer cases.
- Support for 'Reuse' anatomy design on TRIOS® orders.
- Improved ability to use existing margin line in imported orders e.g. TRIOS®.
- Order Form supports 2 scans (scan body and gingiva scan) for imported TRIOS® implant orders.
- Unique option in Dental Manager™ to re-open Model Builder™ after CAD design and cut the digital model with the CAD de sign, e.g. cut gingival to fit the specific abutment design.
- Additional improved features and new functionality in Model Builder™:

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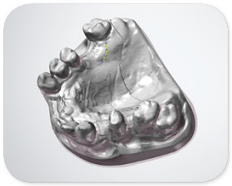
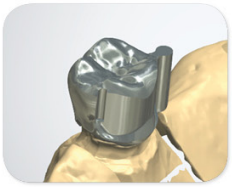
What's new in Dental System™ 2012





  - Articulator interfaces can have a predefined platform distance.
  - Improved Stop Surface Angle for Die.
  - Ability to set a fixed platform distance.
  - Support for Friction bars in implant models.
  - Improved support for models based on iTero™ scan.
- Scanning software prompts users to insert scan abutment for each specific tooth when scanning with single scan abutment.
- Improved 3D Preview in Dental Manager™:
  - New 2D Cross-Section for analysis and measurement.
  - Thickness slider added.
  - Move mouse over surface to show thickness.
- New functionality to copy order and append the CAD design to preparation scan (powerful tool to create a new design on top of an already created design e.g. a secondary telescope on a primary telescope).
- Smart Order Form – faster and easier to create bridge orders.
- Possibility to skip design and send scan directly to inbox (select 'None' as Design Module in the order form or for the material in Control Panel).
- Improved unit and item count in Dental Manager™ .
- 'My Recent' list in Dental Manager™ is sorted based on modification date and shows only the 2 last week's modifications.
- Automatic message for used in inbox can be customized in the Control Panel (On Received, On Reject, On Accept, On Closed).
- Ability to automatically open and completely rebuild a previously completed CAD design using new Re-Build option (CTRL + ATL + R) in Dental Manager™.
- Option to launch 'Library Scanning' directly from Control Panel.
- Possibility to change die interface layer name.
- Ability to download multiple material files from the same site.
- Automatic Feedback Generation function includes additional information for easy analysis.
- Various issues fixed, including problem with Telescope slider visibility in Finalize step.

Version 2.7.8.2 (January 2012)

The following new features and solved issues are available in Dental System™, version 2.7.8.2:

- User-manuals available in 12 languages (all languages accessible from Download Center).
- Full Model Builder™ support for designing models from iTero™ scans using the existing file exported from Itero™ for CAD design.
- Improved Model Builder™ incl. handling watertight scans and overall improved surface quality.
- Easy option to send screen captures via e-mail immediately during design.

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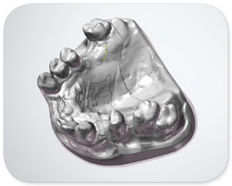
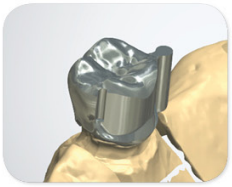
What's new in Dental System™ 2012





- Improved features and added functionality in Removable Partial Design module.
  - Ability to enable/disable threshold in Wax Knife settings during add/remove operation.
  - Attachments penetration in Retention Grid are cut by the block-out model.
  - Support Bars penetration in Retention Grid are cut by the block-out model.
- Sculpt under margin on wax-up bridges.
- Improved tools for connector design.
- Improved Smile Composer™.
- Support for moving groups and multi-selection of elements for creating, adding and deleting groups in Control Panel (Works for the following elements: Colors, Attachments, Smile Libraries, Implant systems and Bars).
- Ability to export Scan and CAD design to Materialize Simplant for 3rd party Implant planning.
- Improved Dental System™ Uninstaller.
- 'Automatic Feedback Generation' function includes additional information in the feedback report.
- Smart Order Form with intelligent order creation.
- Significantly increased stability in split-layers (melt out) when removing undercuts for 2 layer bridges.
- Support for customized abutment design limitation according to design matrix e.g. max angle and dimensions.
- Automatical start of scan when the door is closed (only available for all D800/D810, all D500, and D700/D700 with serial numbers starting with "h" or "i", requiring ScanSuite 1.0.5.0 or higher).
- Improved cut-out of teeth in digital temporaries and diagnostic waxup.
- Accurate selection based alignment of pre-preparation scan and preparation scan.
- Possibility to add margin line file and 3OX order file to STL CAM output.
- New fields added to ERP and 3OX format.
- Various issues fixed, including problem with Apply and OK buttons in Remove Artifacts feature.

Version 2.7.8.1 (December 2011)

The following solved issues and improvements are available in this Hot Fix for Dental System™, version 2.7.8.1:

- Wisdom teeth has been included in Anatomy Libraries and two Smile Libraries
- Improved Connector Stability
- Various issues fixed including problems with:
  - Apply and OK buttons in Coping feature.
  - Abutment output rotation.
  - Replacement of Connector control points when re-entering the Connector feature.

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